

## Further Differentiation (Part 1)

### 4 Trigonometric Functions ( $\tan x$ )

1. Differentiate  $10 \tan x$  with respect to  $x$ .
2. Differentiate  $5x \tan 2x$  with respect to  $x$ .
3. Differentiate  $2 \tan x + \cot x$  with respect to  $x$ .
4. Differentiate  $\tan(\sin x)$  with respect to  $x$ .
5. Differentiate  $-4 \tan(2x) + 3 \tan^3 x$  with respect to  $x$ .



Make sure that you ask for help if you don't understand completely! :)